

### **Amendments to the Claims**

This listing of claims will replace all prior versions and listings of claims in the subject application.

### **Listing of Claims:**

What is claimed is:

1. (Withdrawn) A metallic alloy for coating a metal surface comprising a deoxidizing element, wherein said deoxidizing element reduces a metal-oxide layer on said metal surface.
2. (Withdrawn) The metallic alloy of claim 1, wherein said deoxidizing element is a transition metal, selected from the group consisting of manganese, chromium, vanadium, titanium, zirconium, hafnium, niobium, tantalum, aluminum, lanthanide metals in combination with and oxygen seeking nonmetal/metalloid selected from the group consisting of silicon, carbon, boron, phosphorous, sulfur and combinations thereof.
3. (Withdrawn) The metallic alloy of claim 1 wherein said deoxidizing element is further characterized in that it does not chemically interact with said metallic alloy.
4. (Withdrawn) The metallic alloy of claim 1, wherein said metallic alloy base metal is selected from the group consisting of iron, nickel, cobalt, manganese, chromium, titanium, vanadium, zirconium, niobium, hafnium, tantalum, tungsten, and aluminum.
5. (Withdrawn) The metallic alloy of claim 1 wherein said deoxidizing element is present at a level of 5 to 70%.
6. (Currently Amended) A method of forming a metallic coating on an oxidized metal surface layer comprising:

providing an atomized glass forming iron based metallic coating alloy wherein said alloy includes deoxidizing elements ~~including manganese, and a metal selected from the group consisting of chromium, vanadium, titanium, zirconium, hafnium, niobium, lanthanide metals and combinations thereof~~ and an oxygen seeking nonmetal/metalloid ~~including boron~~ wherein said alloy consists of iron in the range of 60.1 wt% to 68 wt%, manganese, chromium, molybdenum in the range of 1.5 wt% to 6.4 wt%, tungsten, boron, carbon and silicon wherein the elements are combined and present at a total of 100 wt%, wherein said deoxidizing element is present between 5%-70% in said iron based metallic coating alloy; and

forming a metallic coating containing a fraction of metallic glass at a thickness of 40 mil to 110 mil ~~by high velocity oxy-fuel spray~~ by melting said iron based metallic coating alloy to a liquid state;

applying said liquid melt of said iron based metallic coating alloy to said oxidized metal surface, wherein said oxidized metal surface comprises a native oxide layer and removing said oxidized metal surface layer with said liquid melt of said iron based metallic coating alloy to provide a metal surface that is relatively clean of said oxidized metal surface layer and susceptible to receipt of a metallic coating and wherein said deoxidizing elements remove oxygen from the metal surface layer and said deoxidizing elements are present in said alloy melt such that said deoxidizing elements remain dissolved in said alloy melt to retain an affinity for oxygen and no primary precipitates are allowed to be formed in said alloy melt from said deoxidizing elements; and

applying an iron based metallic coating alloy to said metal surface that is relatively clean of said oxidized metal surface layer wherein said iron based metallic coating has an ASTM C633 bond strength of at least 5501 psi ~~about 12,000 psi~~ without using a bond coat and said bond strength is present at said coating thickness from 40 mil to 110 mil and wherein failure of said coating does not occur at a coating/metal surface interface.

7. (Previously Presented) The method of claim 6 wherein said step of melting said iron based alloy to a liquid state comprises forming a liquid state with no precipitates of said deoxidizing elements existing in said liquid state.

AMENDMENT

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8. (Cancelled)

9. (Cancelled)

10. (Cancelled)

11. (Cancelled)

12. (Cancelled)

13. (Cancelled)

14. (Cancelled)

15. (Cancelled)

16. (Cancelled)